

ENTERED

PCT09

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/646,950A

DATE: 02/14/2003 TIME: 13:50:20

Input Set : A:\#321994 v1 - 350013-71 Sequence Listing.txt

Output Set: N:\CRF4\02142003\I646950A.raw

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5 <110> APPLICANT: Watts, Colin
             University of Dundee
     11 <120> TITLE OF INVENTION: Enzyme Inhibition
     15 <130> FILE REFERENCE: DUNW/P20631PC
C--> 19 <140> CURRENT APPLICATION NUMBER: US/09/646,950A
C--> 21 <141> CURRENT FILING DATE: 2003-01-28
     25 <150> PRIOR APPLICATION NUMBER: GB 9806442.1
     27 <151> PRIOR FILING DATE: 1998-03-26
     31 <150> PRIOR APPLICATION NUMBER: US 60/086966
     33 <151> PRIOR FILING DATE: 1998-05-28
     37 <160> NUMBER OF SEQ ID NOS: 32
     41 <170> SOFTWARE: PatentIn Ver. 2.0
     45 <210> SEQ ID NO: 1
     47 <211> LENGTH: 4
     49 <212> TYPE: PRT
     51 <213> ORGANISM: Artificial Sequence
     55 <220> FEATURE:
     57 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
              sequence which may be comprised in a competitive
    59
              inhibitor of AEP
     61
    65 <400> SEQUENCE: 1
     67 Ala Glu Asn Lys
    69
    75 <210> SEQ ID NO: 2
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    79 <212> TYPE: PRT
    81 <213> ORGANISM: Artificial Sequence
    85 <220> FEATURE:
     87 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
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    91
              inhibitor of AEP
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    109 <212> TYPE: PRT
    111 <213> ORGANISM: Homo sapiens
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          1
                                              10
    123 Asp Asp Gln Arg Asp Leu Ile Ser Asn Asn Glu Gln Leu Pro Met Leu
    125
                      20
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129 Gly Arg Arg Pro Gly Ala Pro Glu Ser Lys Cys Ser Arg Gly Ala Leu
                                 40
135 Tyr Thr Gly Phe Ser Ile Leu Val Thr Leu Leu Ala Gly Gln Ala
                            55
141 Thr Thr Ala Tyr Phe Leu Tyr Gln Gln Gln Gly Arg Leu Asp Lys Leu
                        70
                                            75
147 Thr Val Thr Ser Gln Asn Leu Gln Leu Glu Asn Leu Arg Met Lys Leu
                     85
                                         90
153 Pro Lys Pro Pro Lys Pro Val Ser Lys Met Arq Met Ala Thr Pro Leu
155
                100
                                    105
159 Leu Met Gln Ala Leu Pro Met Gly Ala Leu Pro Gln Gly Pro Met Gln
                               120
                                                   125
165 Asn Ala Thr Lys Tyr Gly Asn Met Thr Glu Asp His Val Met His Leu
                            135
                                               140
171 Leu Gln Asn Ala Asp Pro Leu Lys Val Tyr Pro Pro Leu Lys Gly Ser
173 145
                       150
                                           155
177 Phe Pro Glu Asn Leu Thr His Leu Lys Asn Thr Met Glu Thr Ile Asp
                    165
                                       170
183 Trp Lys Val Phe Glu Ser Trp Met His His Trp Leu Leu Phe Glu Met
                180
                                    185
189 Ser Arg His Ser Leu Glu Gln Lys Pro Thr Asp Gln Pro Pro Lys Val
            195
                                200
195 Leu Thr Lys Cys Gln Glu Glu Val Ser His Ile Pro Ala Val His Pro
                            215
                                                220
201 Gly Ser Phe Arg Pro Lys Cys Asp Glu Asn Gly Asn Tyr Leu Pro Leu
                        230
                                           235
207 Gln Cys Tyr Gly Ser Ile Gly Tyr Cys Trp Cys Val Phe Pro Asn Gly
                    245
                                       250
213 Thr Glu Val Pro Asn Thr Arg Ser Arg Gly His His Asn Cys Ser Glu
                                265
215
               260
219 Ser Leu Glu Leu Glu Asp Pro Ser Ser Gly Leu Gly Val Thr Lys Gln
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221 275
225 Asp Leu Gly Pro Val Pro Met
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233 <210> SEQ ID NO: 4
235 <211> LENGTH: 24
237 <212> TYPE: PRT
239 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
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259 Gly His Ile Glu Gly Arg His Ile
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267 <210> SEQ ID NO: 5
269 <211> LENGTH: 36
271 <212> TYPE: DNA
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273 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
279 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
283 <400> SEQUENCE: 5
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289 <210> SEQ ID NO: 6
291 <211> LENGTH: 24
293 <212> TYPE: DNA
295 <213> ORGANISM: Artificial Sequence
299 <220> FEATURE:
301 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
305 <400> SEQUENCE: 6
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307 agcggataac aatttcacac agga
311 <210> SEQ ID NO: 7
313 <211> LENGTH: 17
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317 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
323 <223> OTHER INFORMATION: Description of Artificial Sequence:primer
327 <400> SEQUENCE: 7
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329 gtaaaacgac ggccagt
333 <210> SEQ ID NO: 8
335 <211> LENGTH: 24
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339 <213> ORGANISM: Artificial Sequence
343 <220> FEATURE:
345 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic
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351 <400> SEQUENCE: 8
353 Gln Gln Gln His Leu Phe Gly Ser Asn Val Thr Asp Cys Ser Gly Asn
                                          10
359 Phe Cys Leu Phe Arg Lys Lys
361
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367 <210> SEQ ID NO: 9
369 <211> LENGTH: 9
371 <212> TYPE: PRT
373 <213> ORGANISM: Artificial Sequence
377 <220> FEATURE:
379 <223> OTHER INFORMATION: Description of Artificial Sequence: cleavage
381
          fragment from synthetic transferrin peptide
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387 Gln Gln Gln His Leu Phe Gly Ser Asn
389
395 <210> SEQ ID NO: 10
397 <211> LENGTH: 15
399 <212> TYPE: PRT
401 <213> ORGANISM: Artificial Sequence
405 <220> FEATURE:
407 <223> OTHER INFORMATION: Description of Artificial Sequence: cleavage
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PATENT APPLICATION: US/09/646,950A

Input Set : A:\#321994 v1 - 350013-71 Sequence Listing.txt
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fragment from synthetic transferrin peptide 413 <400> SEQUENCE: 10 415 Val Thr Asp Cys Ser Gly Asn Phe Cys Leu Phe Arg Lys Lys 417 423 <210> SEQ ID NO: 11 425 <211> LENGTH: 8 427 <212> TYPE: PRT 429 <213> ORGANISM: Artificial Sequence 433 <220> FEATURE: 435 <223> OTHER INFORMATION: Description of Artificial Sequence: cleavage fragment from synthetic transferrin peptide 441 <400> SEQUENCE: 11 443 Phe Cys Leu Phe Arg Lys Lys 445 1 451 <210> SEQ ID NO: 12 453 <211> LENGTH: 21 455 <212> TYPE: PRT 457 <213> ORGANISM: Homo sapiens 461 <400> SEQUENCE: 12 463 Gln Gln Gln His Leu Phe Gly Ser Asn Val Thr Asp Cys Ser Gly Asn 465 1 5 469 Phe Cys Leu Phe Arg 471 477 <210> SEQ ID NO: 13 479 <211> LENGTH: 16 481 <212> TYPE: PRT 483 <213> ORGANISM: Homo sapiens 487 <400> SEQUENCE: 13 489 Gln Gln Gln His Leu Phe Gly Ser Asn Val Thr Asp Cys Ser Gly Asn 491 1 5 10 497 <210> SEQ ID NO: 14 499 <211> LENGTH: 5 501 <212> TYPE: PRT 503 <213> ORGANISM: Homo sapiens 507 <400> SEQUENCE: 14 509 Phe Cys Leu Phe Arg 511 1 517 <210> SEQ ID NO: 15 519 <211> LENGTH: 12 521 <212> TYPE: PRT 523 <213> ORGANISM: Homo sapiens 527 <400> SEQUENCE: 15 529 Val Thr Asp Cys Ser Gly Asn Phe Cys Leu Phe Arg 531 1 5 537 <210> SEQ ID NO: 16 539 <211> LENGTH: 9 541 <212> TYPE: PRT

547 <400> SEQUENCE: 16

543 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING DATE: 02/14/2003 PATENT APPLICATION: US/09/646,950A TIME: 13:50:20

Input Set : A:\#321994 v1 - 350013-71 Sequence Listing.txt

Output Set: N:\CRF4\02142003\1646950A.raw

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561 <212> TYPE: PRT
563 <213> ORGANISM: Homo sapiens
567 <400> SEQUENCE: 17
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575 Leu Gly Arg Arg Pro Gly Ala Pro Glu Ser Lys Cys Ser Arg Gly Ala
                                     25
                20
581 Leu Tyr Thr Gly Phe Ser Ile Leu Val Thr Leu Leu Ala Gly Gln
587 Ala Thr Thr Ala Tyr Phe Gln Gln Gln Gly Arg Leu Asp Lys Leu Thr
       50
                             55
593 Val Thr Ser Gln Asn Leu Gln Leu Glu Asn Leu Arg Met Lys Leu Pro
                         70
599 Lys Pro Pro Lys Pro Val Ser Lys Met Arg Met Ala Thr Pro Leu Leu
                                         90
                    85
605 Met Gln Ala Leu Pro Met Gly Ala Leu Pro Gln Gly Gln Asn Ala Thr
                                    105
611 Lys Tyr Gly Asn Met Thr Glu Asp His Val Met His Leu Leu Gln Asn
                                120
617 Ala Asp Pro Leu Lys Val Tyr Pro Pro Leu Lys Gly Ser Phe Pro Glu
                           135
623 Asn Leu Thr His Leu Lys Asn Thr Met Glu Thr Ile Asp Trp Lys Val
                       150
                                            155
629 Phe Glu Met His His Trp Leu Leu Phe Glu Met Ser Arg His Ser Leu
                    165
                                        170
635 Glu Gln Lys Pro Thr Asp Ala Pro Pro Lys Glu Ser Leu Glu Leu Glu
                                   185
641 Asp Pro Ser Ser Gly Leu Gly Val Thr Lys Gln Asp Leu Gly Pro Val
                               200
                                                    205
643
           195
647 Pro Met
       210
655 <210> SEQ ID NO: 18
657 <211> LENGTH: 10
659 <212> TYPE: PRT
661 <213> ORGANISM: Clostridium tetani
665 <400> SEQUENCE: 18
667 Arg His Ile Asp Asn Glu Glu Asp Ile Asp
669 1
675 <210> SEQ ID NO: 19
677 <211> LENGTH: 10
679 <212> TYPE: PRT
681 <213> ORGANISM: Clostridium tetani
685 <400> SEQUENCE: 19
687 Tyr Thr Pro Asn Asn Glu Ile Asp Ser Phe
689
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 02/14/2003 PATENT APPLICATION: US/09/646,950A TIME: 13:50:21

Input Set : A:\#321994 v1 - 350013-71 Sequence Listing.txt

Output Set: N:\CRF4\02142003\I646950A.raw

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The rules require that a line not exceed 72 characters in length. This includes spaces.

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VERIFICATION SUMMARY

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L:19 M:270 C: Current Application Number differs, Replaced Current Application Number

L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date